

ABSTRACT

The auxiliary light source has LED chips respectively emitting red lights arranged therein in an array shape, and has lens cells for parallelizing light arranged therein on the light exit side of the LED chips, for example. The LED chip is arranged in correspondence with each of lenses composing a pair of fly's eye lenses, and the pair of lenses introduces the light emitted from the LED chip into the whole surfaces of liquid crystal panels. A mixing mirror transmits white light emitted from a main light source and reflects light emitted from the auxiliary light source, and mixes the white light and the auxiliary light respectively emitted from both the light sources and introduces the mixed lights into the pair of fly's eye lenses.